

CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

Employer Id : E80823

Employer : Telecommunication Systems Inc

Worksite :

Street : 2401 Elliott Ave 2nd Floor

Jurisdiction : City of Seattle

Survey Type : Online

Survey Date : 11/2/2015

Response Rate : 88%

Drive Alone & One-Way VMT Rates at this Worksite

Employees and Survey Response Information

Drive Alone : 30.1%

Reported Total Employees at Worksite: 245

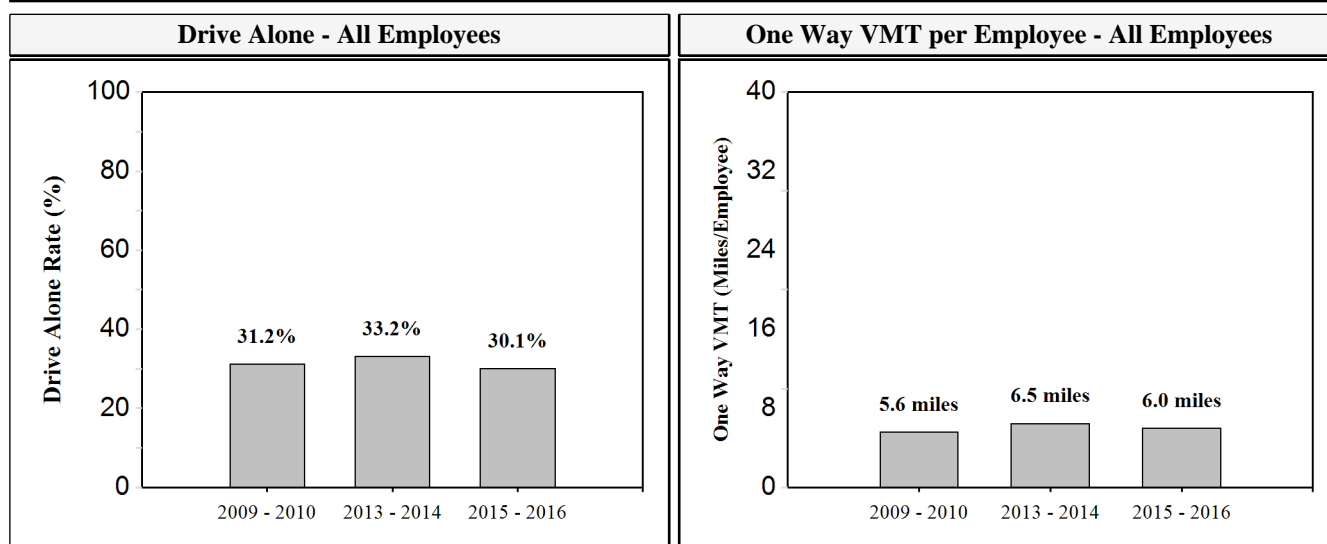
Surveys Distributed : 245

One-Way VMT per employee : 6.0

Surveys Returned : 215

Surveys Returned by CTR Affected Employees : 200

Total Estimated CTR - Affected Employees at Worksite : 228



Site History and Goal

Cycle	Drive Alone - All	Drive Alone - CTR Affected	VMT / Employee - All	VMT / Employee - CTR Affected
2007 - 2008	N/A	N/A	N/A	N/A
2009 - 2010	31.2%	30.3%	5.6	5.4
2011 - 2012	N/A	N/A	N/A	N/A
2013 - 2014	33.2%	31.4%	6.5	6.1
2015 - 2016	30.1%	30.3%	6.0	6.0
2017 - 2018	N/A	N/A	N/A	N/A
2019 - 2020	N/A	N/A	N/A	N/A
Goal	TBD	TBD	TBD	TBD
Percent Change	-3.5%	0.0%	7.1%	11.1%

Comparison Between Rates With and Without Fill-In

The survey response rate is indicated on Page 1. To encourage a response rate of at least 70%, additional drive alone trips are added to survey results for worksites with a response rate of less than 70%. For these worksites it is assumed that non-responding employees between the actual response rate and 70% drive alone 5 days a week. These additional trips represent the "Fill-In" applied. Note that fill-in is not applied to a worksite's first survey in the 2007 to 2012 cycle (their baseline survey).

	2009 - 2010	2013 - 2014	2015 - 2016
Drive Alone - All Employees*	31.2%	33.2%	30.1%
Drive Alone - CTR Affected Employees*	30.3%	31.4%	30.3%
VMT/Employee - All Employees	5.6	6.5	6.0
VMT/Employees - CTR Affected Employees	5.4	6.1	6.0

* Drive alone rate includes one person motorcycles.

Congratulations! You achieved a survey response rate of 70% or higher on this survey. Fill-in comparison for previous surveys, if applicable, are included in the chart above.

GHG Emissions: Total for Drive Alone, Carpools, Vanpools

Annual Greenhouse Gas Emissions (Metric Tons CO₂e) for Roundtrip Commute*

Value	2009 - 2010	2013 - 2014	2015 - 2016
Emissions for Surveyed Employees	273	283	268
Estimated Emissions for Total Employment	354	366	305

* Estimated based on VMT from commuters driving alone, carpooling, vanpooling, or motorcycling, without fill-in applied.

Bus Transit Passenger Miles and Rail Transit Passenger Miles*

Annual Transit Passenger Miles (includes Roundtrip Commute)	2009 - 2010	2013 - 2014	2015 - 2016
Bus Annual Passenger Miles - Estimated for Total Employment	767,211	691,865	629,821
Bus Annual Passenger Miles - Surveyed Employees	592,000	534,500	552,700
Ferry Annual Passenger Miles - Estimated for Total Employment	50,672	27,830	23,588
Ferry Annual Passenger Miles - Surveyed Employees	39,100	21,500	20,700
Train/Light Rail/Streetcar Annual Passenger Miles - Estimated for Total Employment	149,295	243,609	146,202
Train/Light Rail/Streetcar Annual Passenger Miles - Surveyed Employees	115,200	188,200	128,300

* Transit passenger miles can be used to gauge changes in transit usage, and also to calculate greenhouse gas emissions from transit commute trips. However, emissions attributable to transit vary widely, depending on the efficiency/energy source of transit vehicles and transit vehicle passenger load (typically ranging from 0.1 to 0.9 pounds CO₂e emissions/passenger mile). Employers are strongly encouraged to contact their local transit agencies for more precise information on GHG emissions for their transit trips. If nothing else is available, the value of 0.47 pounds (0.00021 metric tons) per passenger mile can be used to estimate CO₂e emissions for bus transit, and 0.39 pounds (0.00018 metric tons) CO₂e emissions per passenger mile for train/light rail/streetcar.

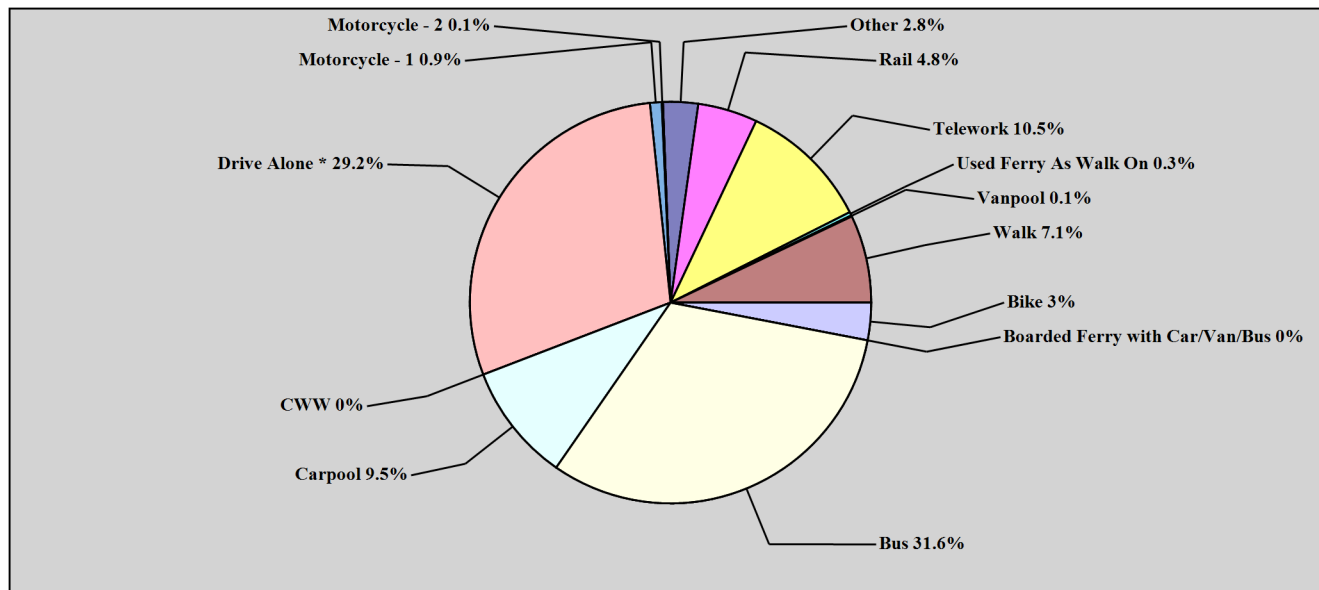
Q3.

One way, how many miles do you commute from home to your usual work location?
Average one-way distance home to work: 16.6 miles

Commute Trips By Mode - All Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



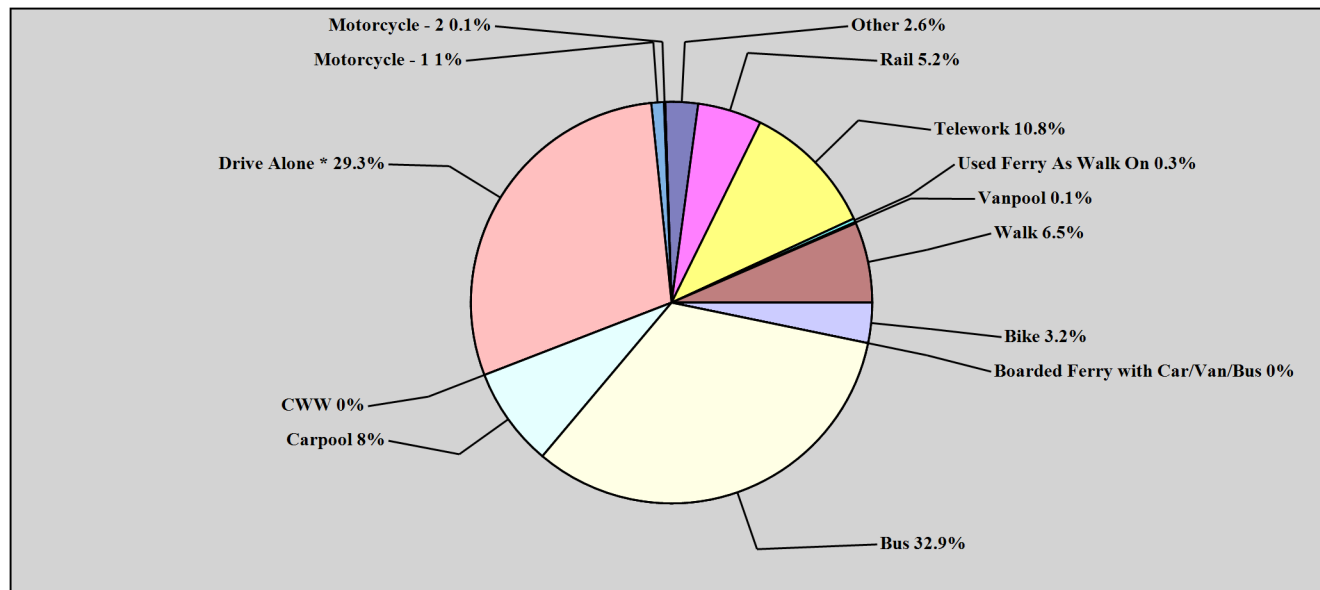
Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During Previous Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During Previous Survey Week
Drive Alone *	310	29.2%	31.8%	83	38.6%	42.1%
Carpool	101	9.5%	5.3%	29	13.5%	9.1%
Vanpool	1	0.1%	0.0%	1	0.5%	0.0%
Motorcycle - 1	10	0.9%	1.4%	3	1.4%	2.0%
Motorcycle - 2	1	0.1%	0.0%	1	0.5%	0.0%
Bus	336	31.6%	32.7%	84	39.1%	41.6%
Rail	51	4.8%	6.0%	12	5.6%	8.6%
Bike	32	3.0%	5.4%	10	4.7%	7.1%
Walk	75	7.1%	6.2%	18	8.4%	8.6%
Telework	112	10.5%	8.5%	52	24.2%	24.4%
CWW	0	0.0%	0.5%	0	0.0%	1.0%
Boarded Ferry with Car/Van/Bus	0	0.0%	0.0%	0	0.0%	0.0%
Used Ferry As Walk On	3	0.3%	0.9%	1	0.5%	1.0%
Other	30	2.8%	1.2%	10	4.7%	2.0%

* Drive alone mode includes fill-in, where applicable.

Commute Trips By Mode - Affected Employees

Q.4a: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - Affected Employees



Mode	Trips During This Survey Week	% of Trips During This Survey Week	% of Trips During Previous Survey Week	Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During This Survey Week	% of Employees Who Used This Mode at Least Once During Previous Survey Week
Drive Alone *	289	29.3%	29.9%	77	38.5%	40.7%
Carpool	79	8.0%	5.4%	24	12.0%	9.6%
Vanpool	1	0.1%	0.0%	1	0.5%	0.0%
Motorcycle - 1	10	1.0%	1.6%	3	1.5%	2.3%
Motorcycle - 2	1	0.1%	0.0%	1	0.5%	0.0%
Bus	325	32.9%	33.6%	81	40.5%	42.9%
Rail	51	5.2%	6.7%	12	6.0%	9.6%
Bike	32	3.2%	5.6%	10	5.0%	7.3%
Walk	64	6.5%	5.8%	15	7.5%	8.5%
Telework	107	10.8%	8.7%	49	24.5%	24.9%
CWW	0	0.0%	0.3%	0	0.0%	0.6%
Boarded Ferry with Car/Van/Bus	0	0.0%	0.0%	0	0.0%	0.0%
Used Ferry As Walk On	3	0.3%	1.0%	1	0.5%	1.1%
Other	26	2.6%	1.4%	8	4.0%	2.3%

* Drive alone mode includes fill-in, where applicable.

Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
0 Day	46	21%	215	100%
1 Days	14	7%	169	79%
2 Days	11	5%	155	72%
3 Days	7	3%	144	67%
4 Days	16	7%	137	64%
5 Days	111	52%	121	56%
6 or More Days	10	5%	10	5%

Work Schedules By Group - All Employees (This table shows the relationship between work schedule and commute mode)

Employees who worked:	Drive Alone 5 days / week		Drive Alone 3 or 4 days / week		Used Bus At Least 3 days / week		Carpooled At Least 3 days / week		Used Rail At Least 3 days / week		Vanpooled At Least 3 times / week		Biked or Walked At Least 3 Days / week		Used 'Other' Modes At Least 3 Days / week		Used Non-Drive Alone At Least 3 Days / week	
5 days a week	34	17.1%	22	11.1%	69	34.7%	19	9.5%	11	5.5%	0	0%	18	9%	5	2.5%	140	70.4%
4 days a week (4/10s)	0	0%	4	66.7%	1	16.7%	1	16.7%	0	0%	0	0%	0	0%	0	0%	2	33.3%
3 days a week	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%
9 days in 2 weeks (9/80)	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
7 days in 2 weeks	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Other	1	14.3%	3	42.9%	0	0%	0	0%	0	0%	0	0%	1	14.3%	0	0%	1	14.3%

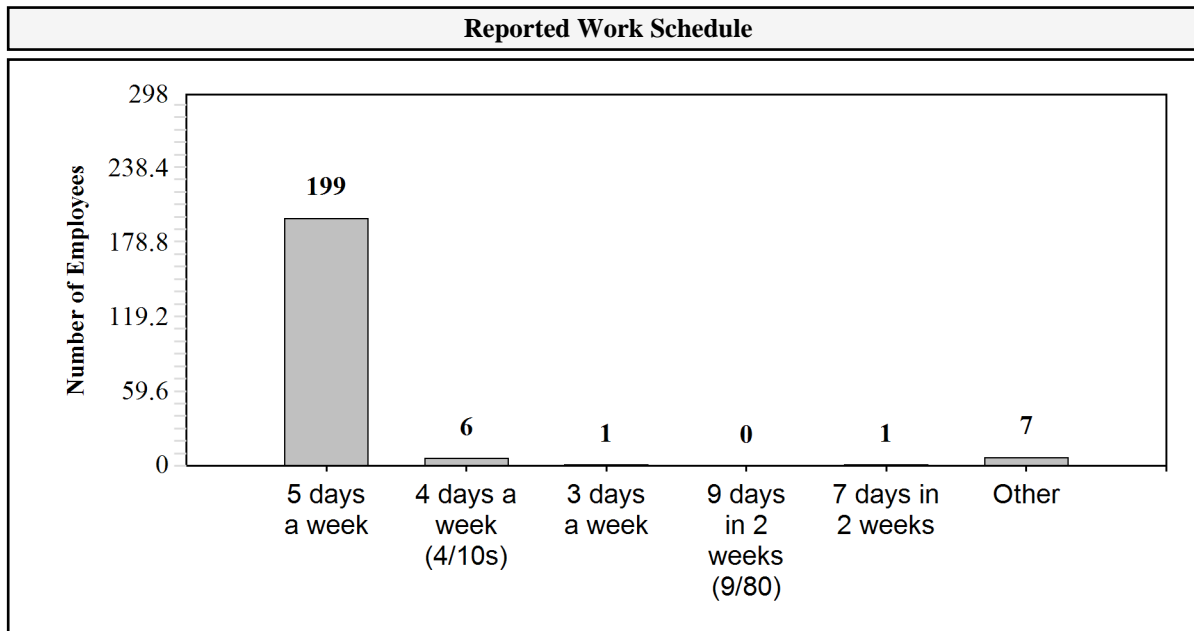
Count by Occupancy of Carpools, Vanpools, and Motorcycles

Q.4b If you used a carpool or vanpool as part of your commute, or if you ride a motorcycle, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
1	Motorcycle	10
2	Motorcycle	1
2	Carpool	79
3	Carpool	6
4	Carpool	11
5	Carpool	5
>5	Carpool	0
<5	Vanpool	1
5	Vanpool	0
6	Vanpool	0
7	Vanpool	0
8	Vanpool	0
9	Vanpool	0
10	Vanpool	0
11	Vanpool	0
12	Vanpool	0
13	Vanpool	0
14	Vanpool	0
15	Vanpool	0

Reported Work Schedule - All Employees

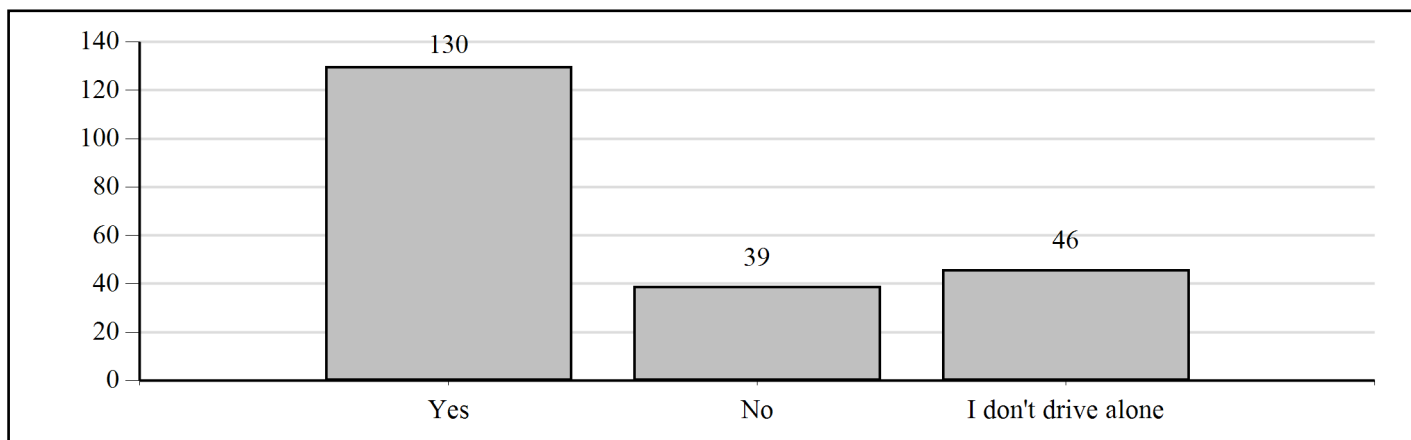
Q.5 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	199	93%
4 days a week (4/10s)	6	2.8%
3 days a week	1	0.5%
9 days in 2 weeks (9/80)	0	0%
7 days in 2 weeks	1	0.5%
Other	7	3.3%

Parking and Telework

Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)



Q.10: How many days do you typically telework?

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	0	0.0%
I don't telework	60	27.9%
Occasionally, on an as-needed basis	72	33.5%
1-2 days/month	18	8.4%
1 day/week	36	16.7%
2 days/week	13	6.0%
3 days/week	16	7.4%

Reasons for driving alone to work/not driving alone to work

Q11. When you do not drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
Cost of parking or lack of parking	97	20.1%
To save money	85	17.6%
Personal health or well-being	56	11.6%
I have the option of teleworking	52	10.8%
To save time using the HOV lane	50	10.4%
Environmental and community benefits	38	7.9%
Other	38	7.9%
Financial incentives for carpooling, bicycling or walking.	24	5.0%
Free or subsidized bus, train, vanpool pass or fare benefit	23	4.8%
Driving myself is not an option	14	2.9%
Emergency ride home is provided	3	0.6%
Preferred/reserved carpool/vanpool parking is provided	2	0.4%
I receive a financial incentive for giving up my parking space	0	0.0%

Q12. When you drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
Riding the bus or train is inconvenient or takes too long	140	30.5%
I like the convenience of having my car	110	24.0%
Family care or similar obligations	74	16.1%
Other	74	16.1%
Bicycling or walking isn't safe	22	4.8%
My commute distance is too short	21	4.6%
I need more information on alternative modes	11	2.4%
My job requires me to use my car for work	6	1.3%
There isn't any secure or covered bicycle parking	1	0.2%

Employee Transit Use - All Employees

Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	4	0	0	11	0	0	5	0	3	2
2	0	0	0	15	0	0	4	0	0	2
3	2	0	0	3	0	0	4	0	0	0
4	2	0	0	4	0	0	1	0	0	1
5	3	0	1	7	1	0	6	0	2	0
6	3	0	0	4	1	0	4	0	1	0
7	1	0	0	3	0	1	1	0	0	0
8	5	0	0	2	0	0	7	0	0	0
9	0	0	0	1	0	0	0	0	0	0
10	2	0	0	16	0	0	7	0	0	0
11 or more	1	0	0	4	0	0	0	0	0	1
# Of Employees using Transit	23	0	1	70	2	1	39	0	6	6
Total One-Way Transit Trips Per Week	134	0	5	384	11	7	216	0	19	40

Employee Transit Use - Affected Employees

Q 13. Please indicate the number of one-way transit or walk-on ferry trips you took last week on each system listed below (for any purpose, not just getting to and from work). Please select "Other" if your transit isn't listed.

Trips/Week	Employees Making This Many Transit Trips in a Week									
	Community Transit	Everett Transit	Intercity Transit	King County Metro	Kitsap Transit	Pierce Transit	Sound Transit	Whatcom Transportation Authority	Ferry as Walk-On	Other
1	3	0	0	9	0	0	5	0	2	2
2	0	0	0	15	0	0	4	0	0	1
3	2	0	0	3	0	0	4	0	0	0
4	2	0	0	4	0	0	1	0	0	1
5	3	0	1	7	1	0	6	0	2	0
6	3	0	0	3	1	0	4	0	1	0
7	1	0	0	3	0	1	1	0	0	0
8	4	0	0	2	0	0	7	0	0	0
9	0	0	0	1	0	0	0	0	0	0
10	2	0	0	16	0	0	7	0	0	0
11 or more	1	0	0	4	0	0	0	0	0	1
# Of Employees using Transit	21	0	1	67	2	1	39	0	5	5
Total One-Way Transit Trips Per Week	125	0	5	376	11	7	216	0	18	38

Commute Mode By ZipCode for All Employees

Q8. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
13045	1	0.47%	0	0	0	0	0	0	0	0	0	0	0	0	5
37218	1	0.47%	0	0	0	0	0	0	0	0	5	0	0	0	0
52318	1	0.47%	0	0	0	0	0	0	0	5	0	0	0	0	0
80503	1	0.47%	0	0	0	0	0	0	0	0	5	0	0	0	0
90631	1	0.47%	1	0	0	0	0	0	0	0	4	0	0	0	0
94852	1	0.47%	0	0	0	0	0	0	0	0	5	0	0	0	0
97365	1	0.47%	0	0	0	0	0	0	0	0	3	0	0	0	0
98001	1	0.47%	0	0	0	0	0	4	0	0	1	0	0	0	0
98004	4	1.86%	5	0	0	0	15	0	0	0	0	0	0	0	0
98005	1	0.47%	4	0	0	0	2	0	0	0	0	0	0	0	0
98006	3	1.40%	6	0	0	0	6	0	0	0	3	0	0	0	0
98007	2	0.93%	1	0	0	0	9	0	0	0	0	0	0	0	0
98008	4	1.86%	9	0	0	0	11	0	0	0	0	0	0	0	0
98011	4	1.86%	4	10	0	0	5	0	0	0	1	0	0	0	0
98012	7	3.26%	5	1	1	0	26	0	0	0	4	0	0	0	0
98014	1	0.47%	0	0	0	0	4	0	0	0	1	0	0	0	0
98019	1	0.47%	4	0	0	0	0	0	0	0	1	0	0	0	0
98021	7	3.26%	3	26	0	0	0	0	0	0	3	0	0	0	2
98023	2	0.93%	5	0	0	0	5	0	0	0	0	0	0	0	0
98026	6	2.79%	14	6	0	0	11	0	0	0	0	0	0	0	0
98027	2	0.93%	1	6	0	0	3	0	0	0	0	0	0	0	0
98028	2	0.93%	4	0	0	0	5	0	0	0	0	0	0	0	0
98029	6	2.79%	11	5	0	0	6	0	0	0	5	0	0	0	1
98030	1	0.47%	0	5	0	0	0	0	0	0	0	0	0	0	0
98031	1	0.47%	4	0	0	0	0	0	0	0	0	0	0	0	0
98032	1	0.47%	5	0	0	0	0	0	0	0	0	0	0	0	0



98033	5	2.33%	12	3	0	0	11	0	0	0	1	0	0	0	0
98034	4	1.86%	0	4	0	0	11	0	0	0	5	0	0	0	0
98036	1	0.47%	0	0	0	0	4	0	0	0	1	0	0	0	0
98040	4	1.86%	15	0	0	0	4	0	0	0	1	0	0	0	0
98042	3	1.40%	4	0	0	0	8	0	0	0	3	0	0	0	0
98043	1	0.47%	0	0	0	0	5	0	0	0	0	0	0	0	0
98052	4	1.86%	5	2	0	0	9	0	0	0	4	0	0	0	0
98053	6	2.79%	2	0	0	0	14	0	0	0	13	0	0	0	0
98055	2	0.93%	6	0	0	0	0	2	2	0	0	0	0	0	0
98056	2	0.93%	8	1	0	0	0	0	0	0	1	0	0	0	0
98057	2	0.93%	0	0	0	0	10	0	0	0	0	0	0	0	0
98058	1	0.47%	4	0	0	0	0	0	0	0	1	0	0	0	0
98059	2	0.93%	3	0	0	0	5	0	0	0	2	0	0	0	0
98065	1	0.47%	1	0	0	0	0	0	0	0	0	0	0	0	4
98072	1	0.47%	5	0	0	0	0	0	0	0	0	0	0	0	0
98074	1	0.47%	5	0	0	0	0	0	0	0	0	0	0	0	0
98075	1	0.47%	0	0	0	0	5	0	0	0	0	0	0	0	0
98077	1	0.47%	5	0	0	0	0	0	0	0	0	0	0	0	0
98087	2	0.93%	5	0	0	0	5	0	0	0	0	0	0	0	0
98092	1	0.47%	0	0	0	0	0	0	0	0	0	0	0	0	5
98101	3	1.40%	0	0	0	0	0	0	0	9	0	0	0	0	3
98102	4	1.86%	0	0	0	0	0	0	0	19	0	0	0	0	0
98103	7	3.26%	10	0	0	0	17	0	8	0	0	0	0	0	0
98104	1	0.47%	0	0	0	0	4	0	0	1	0	0	0	0	0
98105	1	0.47%	0	5	0	0	0	0	0	0	0	0	0	0	0
98106	4	1.86%	2	1	0	2	14	0	0	0	0	0	0	0	0
98107	3	1.40%	10	0	0	0	2	0	0	2	1	0	0	0	0
98109	3	1.40%	0	0	0	5	9	0	0	0	1	0	0	0	0
98110	2	0.93%	0	0	0	0	0	0	5	0	0	0	0	0	0
98112	1	0.47%	0	0	0	0	0	7	0	0	0	0	0	0	0
98115	2	0.93%	0	0	0	0	5	0	5	0	0	0	0	0	0
98116	1	0.47%	0	0	0	0	5	0	0	0	0	0	0	0	0
98118	3	1.40%	6	0	0	0	0	8	0	0	1	0	0	0	0
98119	4	1.86%	5	0	0	0	5	0	0	12	0	0	0	0	0
98121	6	2.79%	1	0	0	0	0	0	0	27	0	0	0	0	0
98122	5	2.33%	9	0	0	0	9	0	4	0	1	0	0	0	2
98125	1	0.47%	0	0	0	0	5	0	0	0	0	0	0	0	0



98126	3	1.40%	6	5	0	0	0	0	3	0	1	0	0	0	0
98131	1	0.47%	4	0	0	0	0	0	0	0	1	0	0	0	0
98133	7	3.26%	3	12	0	0	18	0	2	0	0	0	0	0	0
98136	2	0.93%	9	0	0	0	0	0	0	0	0	0	0	0	0
98144	2	0.93%	0	0	0	0	5	0	0	0	5	0	0	0	0
98146	2	0.93%	5	4	0	0	0	0	0	0	0	0	0	0	0
98148	1	0.47%	2	0	0	0	3	0	0	0	0	0	0	0	0
98168	1	0.47%	4	0	0	0	0	0	0	0	0	0	0	0	0
98177	1	0.47%	5	0	0	0	0	0	0	0	0	0	0	0	0
98178	2	0.93%	0	1	0	1	0	8	0	0	0	0	0	0	0
98188	1	0.47%	4	0	0	0	0	0	0	0	1	0	0	0	0
98198	1	0.47%	0	0	0	0	5	0	0	0	0	0	0	0	0
98199	3	1.40%	1	4	0	3	3	0	3	0	1	0	0	0	0
98201	1	0.47%	0	0	0	0	4	0	0	0	0	0	0	0	2
98203	2	0.93%	10	0	0	0	0	0	0	0	0	0	0	0	0
98208	1	0.47%	0	0	0	0	5	0	0	0	0	0	0	0	0
98258	4	1.86%	3	0	0	0	15	0	0	0	1	0	0	0	0
98270	2	0.93%	9	0	0	0	0	0	0	0	0	0	0	0	0
98273	1	0.47%	5	0	0	0	0	0	0	0	0	0	0	0	0
98275	1	0.47%	4	0	0	0	0	0	0	0	0	0	0	0	1
98284	1	0.47%	4	0	0	0	0	0	0	0	1	0	0	0	0
98291	1	0.47%	2	0	0	0	0	0	0	0	3	0	0	0	0
98296	3	1.40%	8	0	0	0	4	0	0	0	5	0	0	0	0
98332	1	0.47%	0	0	0	0	0	5	0	0	0	0	0	0	0
98338	2	0.93%	6	0	0	0	0	3	0	0	1	0	0	0	0
98340	1	0.47%	0	0	0	0	0	0	0	0	0	0	0	0	5
98370	2	0.93%	0	0	0	0	0	0	0	0	10	0	0	0	0
98373	1	0.47%	0	0	0	0	0	4	0	0	1	0	0	0	0
98374	1	0.47%	0	0	0	0	0	5	0	0	0	0	0	0	0
98404	1	0.47%	0	0	0	0	0	5	0	0	0	0	0	0	0
98422	1	0.47%	4	0	0	0	0	0	0	0	0	0	0	0	0
98443	1	0.47%	3	0	0	0	0	0	0	0	2	0	0	0	0
98528	1	0.47%	0	0	0	0	0	0	0	0	2	0	0	3	0